

What is claimed is

1. A display apparatus comprising:

a storage device that stores a plurality of specification information for the display

apparatus;

a connection device capable of selectively connecting a plurality of types of cable,

and which has a first terminal for connection to a power supply terminal of said cable and

a second terminal for connection to a power supply detection terminal of said cable;

a resistor connected between said first and second terminals;

a distinguishing device which distinguishes the type of the cable connected to said

connection device by detecting a potential difference due to said resistor;

a selection device that selects one of said specification information from said

storage device based on the distinction result of said distinguishing device; and

a transmission device that transmits the specification information selected by said

selection device via said connection device and cable to a computer.

2. A display apparatus according to claim 1, wherein the plurality of specification information stored by said storage device is digital interface type specification information and analog interface type specification information.

3. A display apparatus according to claim 1, wherein said plurality of types of cable are: a first cable having a power supply line from said computer, a power supply detection line, a transmission line for said specification information, and a transmission line for digital video signals from said computer; and a second cable having a power supply line from said computer, a transmission line for said specification information, and a transmission line for analog video signals from said computer, and with said power supply line and said second terminal of said connection device short circuited.

4. A display apparatus according to claim 2, wherein said plurality of types of cable are: a first cable having a power supply line from said computer, a power supply detection line, a transmission line for said specification information, and a transmission line for digital video signals from said computer; and a second cable having a power supply line from said computer, a transmission line for said specification information, and a

transmission line for analog video signals from said computer, and with said power supply line and said second terminal of said connection device short circuited.

5. A display apparatus according to claim 3, wherein said specification information is EDID for a plug and play function, and said first cable is a DVI-D to DVI-D cable whose HPD terminal and DDC 5V line are not short circuited, and said second cable is a D-Sub to DVI-I conversion cable whose HPD terminal and DDC 5V line are short circuited, and a resistor is connected between the HPD terminal and the DDC 5V terminal of said connection device, and said distinguishing device detects the potential difference across both ends of said resistor and controls said selection device based on the detection result.

6. A display apparatus according to claim 4, wherein said specification information is EDID for a plug and play function, and said first cable is a DVI-D to DVI-D cable whose HPD terminal and DDC 5V line are not short circuited, and said second cable is a D-Sub to DVI-I conversion cable whose HPD terminal and DDC 5V line are short circuited, and a resistor is connected between the HPD terminal and the DDC 5V terminal of said

connection device, and said distinguishing device detects the potential difference across both ends of said resistor and controls said selection device based on the detection result.

7. A display apparatus according to claim 5, wherein said distinguishing device is supplied with power from said DDC 5V, and said transmission device and said storage device are supplied with power from said DDC 5V via a first diode, or from an internal power source via a second diode.

8. A display apparatus according to claim 6, wherein said distinguishing device is supplied with power from said DDC 5V, and said transmission device and said storage device are supplied with power from said DDC 5V via a first diode, or from an internal power source via a second diode.

9. A display apparatus according to claim 1, wherein said selection device is a multiplexer.

10. A display apparatus according to claim 8, wherein said selection device is a multiplexer.

11. A display system comprising:

a display apparatus provided with:

a storage device that stores a plurality of specification information for the display apparatus;

a connection device capable of selectively connecting a plurality of types of cable, and which has a first terminal for connection to a power supply terminal of said cable and a second terminal for connection to a power supply detection terminal of said cable;

a resistor connected between said first and second terminals;

a distinguishing device which distinguishes the type of the cable connected to said connection device by detecting a potential difference due to said resistor;

a selection device that selects one of said specification information from said storage device based on the distinction result of said distinguishing device; and

a transmission device that transmits the specification information selected by said selection device via said connection device and cable to a computer;

one of said plurality of types of cable for connection to said connection device; and
a computer provided with: a connection device for connection to said display
apparatus via said cable; and a transmission device which transmits a video signal to said
display apparatus based on said specification information sent from said display apparatus.

12. A display apparatus according to claim 11, wherein said plurality of types of cable
are: a first cable having a power supply line from said computer, a power supply detection
line, a transmission line for said specification information, and a transmission line for
digital video signals from said computer; and a second cable having a power supply line
from said computer, a transmission line for said specification information, and a
transmission line for analog video signals from said computer, and with said power supply
line and said second terminal of said connection device short circuited.

13. A cable having;
a first connector at one end that connects to a computer, and a second connector at
the other end that connects to a display apparatus,

and between said first and second terminals, there is provided a power supply line from said computer, a specification information transmission line from said display apparatus, and an analog video signal transmission line from said computer, and said second connector is provided with a power supply detection terminal short circuited to said power supply line.